

10CFR 50.55a

January 17, 2013

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555-0001

> Peach Bottom Atomic Power Station (PBAPS), Unit 2 Renewed Facility Operating License No. DPR-44 NRC Docket Nos. 50-277

Subject:

Submittal of the Inservice Inspection (ISI) Owner's Activity Report for the

19th Refueling Outage for Unit 2

Attached is the ISI Owner's Activity Report covering ISI activities associated with the first period of the current ISI inspection interval for Unit 2. This report is submitted pursuant to the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, "Rules for the Inservice Inspection of Nuclear Power Plant Components," Article IWA-6200, "Requirements" (2001 Edition through 2003 Addenda) and ASME Code Case N-532-4 (Repair/Replacement Activity Documentation Requirements and In-Service Summary Report Preparation and Submission, section XI, Division 1).

If you have any questions or require additional information, feel free to contact Jeremy Searer at 717-456-4771.

Sincerely.

Timothy A. Moore

Director - Site Engineering

Peach Bottom Atomic Power Station

Attachment

cc: USNRC Region I, Regional Administrator USNRC Senior Resident Inspector, PBAPS USNRC Project Manager, PBAPS

R. R. Janati, Bureau of Radiation Protection

S. T. Gray, State of Maryland

CCN: 13-05



PEACH BOTTOM ATOMIC POWER STATION, UNIT No. 2 – P2R19 OAR REPORT

FORM OAR-1 OWNER'S ACTIVITY REPORT
Report Number P2R19
Plant Peach Bottom Atomic Power Station, 1848 Lay Road, Delta, PA 17314
Unit No. 2 Commercial Service Date July 5, 1974 Refueling Outage No. 19
Current Inspection Interval ISI = Fourth / CISI = Second
Current Inspection Period ISI = First / CISI = First
Edition and Addenda of Section XI Applicable to the inspection plans 2001 Edition through 2003 Addenda
Date and revision of inspection plan 12/14/2011 Rev 2
Edition & Addenda of Section XI Applicable to repairs and replacements, if different than the inspection plan 2001 Edition through 2003 Addenda
Code Cases used: N-460, N-513-3, N-532-4, N-578-1, N-700 & N-702
CERTIFICATE OF CONFORMANCE
I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of P2R19 conform to the requirements of Section XI.
Signed Jeremy Searer, ISI Program Owner Date 1/16/2013 Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Hartford Steam Boiler Inspection and Insurance Company of Connecticut have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
A TURNO Commissions NB 7592 PA ZIG3 4 M T Inspector's Signature National Board, State, Province, and Endorsements

TABLE 1

ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE FOR PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 2 OCTOBER 9, 2010 TO OCTOBER 19, 2012 (END OF P2R19 REFUEL OUTAGE)

Examination Category	Item Number	Item Description	Evaluation Description
F-A	F1.20	10GB-H61 Rigid Restraint	Relevant Condition – Deformation to the support plate. IWF-2430 additional examinations were completed, and as-found condition was accepted by engineering. Ref IR # 1419829
B-A	B1.22	CH-MB Closure Head Meridional Weld	This weld has been successfully inspected in three successive periods since relevant indications were identified and evaluated. Indications were identified in P2R14, successive examinations were completed in P2R15, P2R17, P2R19. It has been deteremined through GE evaluation, DRF-0000-0151-0155, that the flaws or relevant conditions have remained essentially unchanged over the three successive examinations thus the component examination schedule will revert back to the original schedule. Ref IR 1424663-01

SYSTEM 01: MAIN STEAM AND TURBINE SYSTEM

Code <u>Class</u>	Repair, Replacement, or Corrective Measure	Item Description (component I.D.)	Description Of Work Performed	Condition Found During Scheduled Section XI Exam Or Test	Date Complete	R&R Plan # and W/O #
Class 1	Replacement	RV-2-02-071A	Installed a rebuilt safety relief valve	No	9/17/2012	11-115, C0238867
Class 1	Replacement	RV-2-02-071D	Installed a rebuilt safety relief valve	No	9/17/2012	11-162, R1181767
Class 1	Replacement	RV-2-02-071H	Installed a rebuilt safety relief valve	No	9/17/2012	11-163, R1114313
Class 1	Replacement	RV-2-02-071F	Installed a rebuilt safety relief valve	No	9/17/2012	11-164, R1114314
Class 1	Replacement	RV-2-02-071G	Installed a rebuilt safety relief valve	No	9/17/2012	11-165, R1114317
Class 1	Replacement	RV-2-02-071B	Installed a rebuilt safety relief valve	No	9/17/2012	11-166, R1114322
Class 1	Replacement	RV-2-02-070B	Installed a rebuilt safety relief valve	No	9/17/2012	11-167, R1114326
Class 1	Replacement	RV-2-02-071E	Installed a rebuilt safety relief valve	No	9/17/2012	11-168, R1114864
Class 1	Repair	Target Rock RV's	NWS Technologies install thermowell hole on safety vlv	No	6/21/2012	12-088, N/A
Class 1	Replacement	RV-2-02-070A	Installed a rebuilt safety relief valve	No	10/7/2012	12-108, R1181769

Flaw or Relevant

SVSTEM 03.	CONTROL	ROD DRIVE

				Flaw or Relevant		
	Repair,			Condition Found		
	Replacement,			During Scheduled		
Code	or Corrective	Item Description		Section XI Exam	Date	
Class	<u>Measure</u>	(component I.D.)	Description Of Work Performed	Or Test	<u>Complete</u>	R&R Plan # and W/O #
Class 1	Replacement	CRD's 02-23, 06-19, 06-23	Exchanged CRD's with rebuilt CRD's	No	10/9/2012	12-066, R1193249

14-47, 18-07, 18-23, 18-59, 22-43, 26-15, 30-11, 30-19, 30-47, 30-59, 38-27, 42-31 42-39, 46-15, 46-47, 50-11

Code Class Class M	Repair, Replacement, or Corrective Measure Replacement Repair Repair Repair Repair Repair	Item Description (component I.D.) N-200A 20S019 20S019 20S019 20S019	Description Of Work Performed Installed new stud on Suppression Chamber Hatch Weld repaired torus ring girder to shell fillet weld Repaired torus stiffener to ring girder fillet weld Repaired T-Quencher support weld Repaired T-Quencher support weld	Flaw or Relevant Condition Found During Scheduled Section XI Exam Or Test No No No No No No	Date Complete 10/15/2012 9/28/2012 10/4/2012 10/4/2012 10/5/2012	R&R Plan # and W/O # 12-056, R1180470 12-107, C0245015 12-113, C0245090 12-114, C0245092 12-115, C0245093
SYSTEM 08:	OFFGAS AND	RECOMBINER				
Code <u>Class</u>	Repair, Replacement, or Corrective Measure	Item Description (component I.D.)	Description Of Work Performed	Flaw or Relevant Condition Found During Scheduled Section XI Exam Or Test	Date <u>Complete</u>	R&R Plan # and W/O #
Class 2	Replacement	HV-2-08-43037	Installed leak repair injection ports in bonnet	No	11/1/2010	10-177, C0235368
Class 2	Replacement	HV-2-08-43037	Installed new valve	No	9/26/2012	10-186, C0235369
SYSTEM 10:	RESIDUAL HE Repair, Replacement, or Corrective	EAT REMOVAL Item Description		Flaw or Relevant Condition Found During Scheduled Section XI Exam	Date	
<u>Class</u>	<u>Measure</u>	(component I.D.)	Description Of Work Performed	Or Test	Complete	R&R Plan # and W/O #
Class 2	Replacement	MO-2-10-026A	Installed new valve	No	9/28/2012	10-043, C0226534
Class 2	Replacement	PB-2-10-2DE024	Replaced Hx Head Studs and Nuts	No	4/18/2012	11-074, R0974619
Class 2	Replacement	RHR DECON PORTS	Install RHR Decon Ports per ECR 11-00352	No No	5/9/2012 9/22/2012	11-126, C0239756
Class 2 Class 2	Replacement Repair	PB-2-10-2AE024 PB-2-10-2DE024	Installed new Hx. Floating Head, machined gasket surface Weld repaired and machined Hx gasket surface	No No	9/22/2012	12-017, C0241455 12-076, C0241731
Class 2 Class 2	Replacement	RV-2-10-2DE024	Installed new RHR Pump 2AP035 Suction Relief Valve	No No	9/11/2012	12-076, C0241731 12-077, R1191754
Class 2	Replacement	RV-2-10-072B	Installed new RHR Pump 2BP035 Suction Relief Valve	No	9/27/2012	12-077, 111191754 12-078, R1191762
Class 2	Replacement	RV-2-10-072C	Installed new RHR Pump 2CP035 Suction Relief Valve	No	9/17/2012	12-079, R1191765
Class 2	Replacement	RV-2-10-072D	Installed new RHR Pump 2DP035 Suction Relief Valve	No	9/27/2012	12-080, R1191768
Class 2	Replacement	MO-2-10-031B	Replaced valve bonnet nuts and studs	No	10/8/2012	12-125, C0245137

Code Class Class 2	Repair, Replacement, or Corrective Measure Replacement	Item Description (component I.D.) RV-2-11-39B	Description Of Work Performed Installed new relief valve	Flaw or Relevant Condition Found During Scheduled Section XI Exam Or Test No	Date <u>Complete</u> 9/23/2012	R&R Plan # and W/O # 12-063, R1185223
SYSTEM 14:	CORE SPRAY	SYSTEM		Flaw or Relevant		
	Repair, Replacement,			Condition Found During Scheduled		
Code	or Corrective	Item Description		Section XI Exam	Date	
Class	<u>Measure</u>	(component I.D.) RV-2-14-020B	Description Of Work Performed Installed new relief valve	Or Test	Complete	R&R Plan # and W/O #
Class 2	Replacement	110-2-14 0200	installed new relief valve	No	6/12/2012	10-194, R0981050
SYSTEM 23:	HIGH PRESSU	RE COOLANT INJECT	TION SYSTEM			
				Flaw or Relevant		
	Repair,			Condition Found		
	Replacement,		•	During Scheduled		
Code	or Corrective	Item Description		Section XI Exam	Date	
Class	<u>Measure</u>	(component I.D.)	Description Of Work Performed	Or Test	Complete	R&R Plan # and W/O #
Class 2	Replacement	VRV-2-23C-4998A	Installed new vacuum relief valve	No	1/20/2011	08-150, R0897288
Class 2	Replacement	RV-2-23B-034	Installed new relief valve	No	1/19/2011	10-178, R0989045
Class 2	Replacement	MO-2-23-014	Replaced valve bonnet stud	No	9/26/2012	10-042, C0231906
Class 1	Replacement	AO-2-23-018	Replaced 4 valve bonnet studs	No	9/23/2012	10-062, R0917376

Replaced valve bonnet and valve bonnet studs

No

9/29/2012

12-109, C0231906

Replacement

MO-2-23-014

Class 2

SYSTEM 27G	: TORUS WA	ATER TRANSFER		Flaw or Relevant Condition Found		
	Replacement,			During Scheduled		
Code	or Corrective	Item Description		Section XI Exam	Date	
<u>Class</u>	<u>Measure</u>	(component I.D.)	Description Of Work Performed	Or Test	Complete	R&R Plan # and W/O #
Class 2	Replacement	Torus Penet. N-213A	Installed new torus penetration flange studs, tie in piping	No	10/9/2012	12-013, C0241383
SYSTEM 32:	HIGH PRESS	SURE SERVICE WATER SY	YSTEM			
Code	Repair, Replacement, or Corrective	Item Description		Flaw or Relevant Condition Found During Scheduled Section XI Exam	Date	
Class	Measure	(component I.D.)	Description Of Work Performed	Or Test	Complete	R&R Plan # and W/O #
Class 3	Replacement	RV-2-32-180A	Installed new RHR Hx. 2AE024 Tube Side Relief Valve	No	1/26/2011	09-121, R0959148
Class 3	Replacement	32GB-H27, 32GB-S59	Install Shims in supports 32GB-H27, and 32GB-S59	No	12/29/2010	10-137, C0234142
Class 3	Replacement	HV-2-32-516A	Install branch connections on 18" HPSW elbow/reducer	No	10/7/2012	12-111, C0245076
Class 3	Replacement	2-32GB-S50A & S67	Modify 2-32GB-S50A and install new 2-32GB-S67	No	8/28/2012	12-096, C0242743
SYSTEM 33:	EMERGENC'	Y SERVICE WATER				•
	Repair, Replacement,			Flaw or Relevant Condition Found During Scheduled		
Code	or Corrective	Item Description		Section XI Exam	Date	
<u>Class</u>	<u>Measure</u>	(component I.D.)	Description Of Work Performed	Or Test	<u>Complete</u>	R&R Plan # and W/O #
Class 3	Replacement	CHK-0-33-515A	Install branch connections over min wall on 20" ESW pipe	No	3/15/2011	10-140, C0234255
Class 3	Replacement	Excavation Site #1, Grid A4	Install branch connection over min wall on 20" ESW pipe	No	12/8/2010	10-190, C0235811
Class 3	Replacement	Excavation Site #2, Grid C1	Install branch connection over min wall on 20" ESW pipe	No	12/8/2010	10-191, C0235747
Class 3	Replacement	Excavation Site #2, Grid B6	Install branch connection over min wall on 20" ESW pipe	No	12/8/2010	10-192, C0235818
Class 3	Replacement	Excavation Site #4, Grid B12	Install branch connection over min wall on 16" ESW pipe	No	12/8/2010	10-193, C0235861
Class 3	Replacement	Excavation Site #4, Grid A5/6	Install branch connection over min wall on 16" ESW pipe	No	12/8/2010	10-199, C0235916
Class 3	Repair	Excavation Site #1, Grid A4	Remove linear indication at Grid A4 branch location	No	12/6/2010	10-203, C0235811

Flaw or Relevant

Flaw or Relevant

ABSTRACT OF ASME REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES FOR PEACH BOTTOM ATOMIC POWER STATION, UNIT NO. 2 OCTOBER 9, 2010 TO OCTOBER 19, 2012 (END OF P2R19 REFUEL OUTAGE)

SYSTEM 33: EMERGENCY SERVICE WATER (continued)

Code <u>Class</u>	Repair, Replacement, or Corrective Measure	Item Description (component I.D.)	Description Of Work Performed	Condition Found During Scheduled Section XI Exam Or Test	Date Complete	R&R Plan	# and W/O #
Class 3	Repair	Excavation Site #2, Grid B6	Remove linear indication at Grid B6 branch location	No	12/7/2010	10-204,	C0235818
Class 3	Replacement	ISO-2-33-101-R01-D/S-B09	Install branch connection over min wall on 16" ESW pipe	No	3/17/2011	11-004,	C0236145
Class 3	Replacement	HV-0-33-11436	Install hot tap drain connection on 12" ESW pipe	No	3/17/2011	11-004,	C0236145
Class 3	Replacement	HV-0-33-11435	Install hot tap drain connection on 20" ESW pipe	No	3/17/2011	11-005,	C0236146
Class 3	Replacement	HV-0-33-519C	Install new valve and associated piping	No	12/9/2011	11-010,	C0239971
Class 3	Replacement	20" ESW Piping	Install branch connection over min wall on 20" ESW pipe	No	3/13/2012	11-023,	C0236144
Class 3	Replacement	Excavation Site #6, Grid B6	Install branch connection over min wall on 16" ESW pipe	No	8/9/2011	11-112,	C0237164
Class 3	Replacement	Excavation Site #7 multi grids	Install branch connections on 12", 16", and 18" ESW pipe	No	8/9/2011	11-113,	C0237165
Class 3	Replacement	HV-0-33-519B	Installed new valve	No	3/29/2012	12-008,	C0240520
Class 3	Replacement	HV-0-33-504B	Installed new valve	No	3/30/2012	12-009,	C0241241
Class 3	Replacement	HV-2-33-503	Installed new valve bonnet studs	No	9/24/2012	12-012,	C0241348

SYSTEM 65A: HYDRAULIC SNUBBERS

Code Class	Repair, Replacement, or Corrective Measure	Item Description (component I.D.)	Description Of Work Performed	Condition Found During Scheduled Section XI Exam Or Test	Date <u>Complete</u>	R&R Plan # and W/O #
Class 3	Replacement	1-GG-S-16	Installed new hydraulic snubber and extended rod eye	No	9/21/2012	12-042, C0241208
Class 3	Replacement	1-GG-S-33	Installed new hydraulic snubber	No	9/14/2012	12-043, C0241209
Class 3	Replacement	1-GG-S-64	Installed new hydraulic snubber	. No	9/14/2012	12-044, C0241210
Class 3	Replacement	1-GG-S-76	Installed new hydraulic snubber	No	9/19/2012	12-046, C0241212
Class 1	Replacement	6-DDNL-S-11	Installed new hydraulic snubber	No	9/18/2012	12-049, C0241215
Class 1	Replacement	SS-A-3	Installed new hydraulic snubber	No	9/22/2012	12-051, C0241217
Class 2	Replacement	10-GB-S-52	Installed new hydraulic snubber	No	9/27/2012	12-052, C0241218
Class 2	Replacement	10-GB-S-43-2	Installed new hydraulic snubber	No	9/28/2012	12-053, C0241219
Class 3	Replacement	1-GG-S-12	Installed new hydraulic snubber	No	9/18/2012	12-058, R0475291
Class 2	Replacement	10-GB-S-44	Installed new hydraulic snubber	No	10/2/2012	12-112, C0245053

SYSTEM 65B: MECHANICAL SNUBBERS

Code	Repair, Replacement, or Corrective	Item Description		Flaw or Relevant Condition Found During Scheduled Section XI Exam	Date	
Class	<u>Measure</u>	(component I.D.)	Description Of Work Performed	Or Test	Complete	R&R Plan # and W/O #
Class 3	Replacement	1-GG-S-205-B	Installed new mechanical snubber	No	9/14/2012	12-019, C0241184
Class 3	Replacement	1-GG-S-108-B	Installed new mechanical snubber	No	9/19/2012	12-020, C0241185
Class 3	Replacement	1-GG-S-209-A	Installed new mechanical snubber	No	9/12/2012	12-021, C0241186
Class 3	Replacement	1-GG-S-111-B	Installed new mechanical snubber	No	9/22/2012	12-023, C0241188
Class 3	Replacement	1-GG-S-111-A	Installed new mechanical snubber	No	9/22/2012	12-024, C0241189
Class 1	Replacement	SS-6-A	Installed new mechanical snubber	No	9/17/2012	12-025, C0241190
Class 2	Replacement	14-MO-H-57	Installed new mechanical snubber	No	9/25/2012	12-029, C0241195
Class 2	Replacement	10-GB-S-76	Installed new mechanical snubber	No	9/17/2012	12-030, C0241196
Class 1	Replacement	H-3LS-142-1	Installed new mechanical snubber	No	9/25/2012	12-031, C0241197
Class 1	Replacement	H-3LS-142-6	Installed new mechanical snubber	No	9/25/2012	12-032, C0241198
Class 1	Replacement	SS-2-A	Installed new mechanical snubber	No	9/17/2012	12-033, C0241199
Class 2	Replacement	23-HB-S-16	Installed new mechanical snubber	No	9/17/2012	12-036, C0241203
Class 1	Replacement	12-DCN-S-8-A	Installed new mechanical snubber	No	10/6/2012	12-124. C0245164